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IS 6371 (1971): Forceps, Bone Holding, Lane's, Lane-fagge's and Fergusson's Patterns [MHD 2: Orthopaedic Instruments, Implants and Accessories]

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Indian Standard

(Reaffirmed 2002)

SPECIFICATION FOR FORCEPS, BONE HOLDING, LANE'S, LANE-FAGGE'S AND FERGUSSON'S PATTERNS

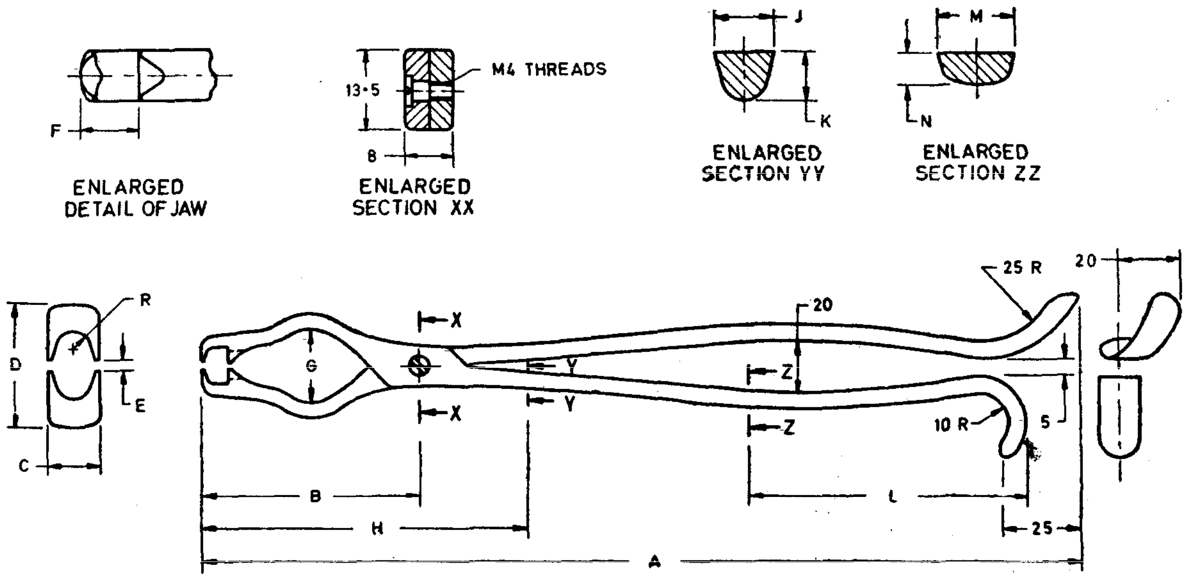
1. Scope — Dimensions and other requirements for bone holding forceps of Lane's, Lane-Fagge's and Fergusson's patterns.

2. Materials

2.1 *Arms* — Stainless steel conforming to Designation 30Cr13 of Schedule V of IS : 1570-1961 ' Schedules for wrought steels for general engineering purposes '.

2.2 *Screws* — Stainless steel conforming to Designation 22Cr13 of Schedule V of IS : 1570-1961.

3. Shapes and Dimensions — As shown in Fig. 1, 2 and 3.



Size	A ±5	B	C	D	E	F	G	H	J	K	L	M	N
Large	400	85	9·0	24	2·5	12	28	120	10	8·0	125	14	6·0
Medium	300	75	8·5	21	2·0	10	26	110	9	7·5	95	13	5·5
Small	250	65	8·0	18	2·0	8	24	100	8	7·0	65	12	5·0

All dimensions in millimetres.

FIG. 1 FORCEPS, BONE HOLDING, LANE'S PATTERN

Orthopaedic Instruments and Accessories Sectional Committee, CPDC 24; Orthopaedic Instruments Subcommittee, CPDC 24 : 1 [Ref : Doc : CPDC 24 (537)]

Adopted 15 October 1971

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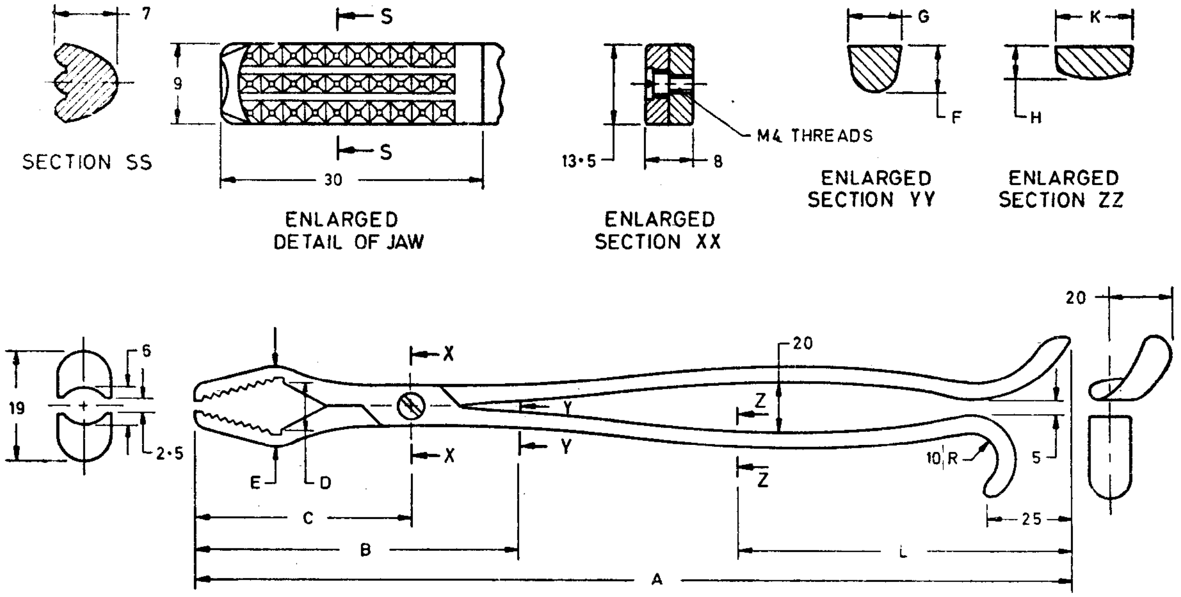
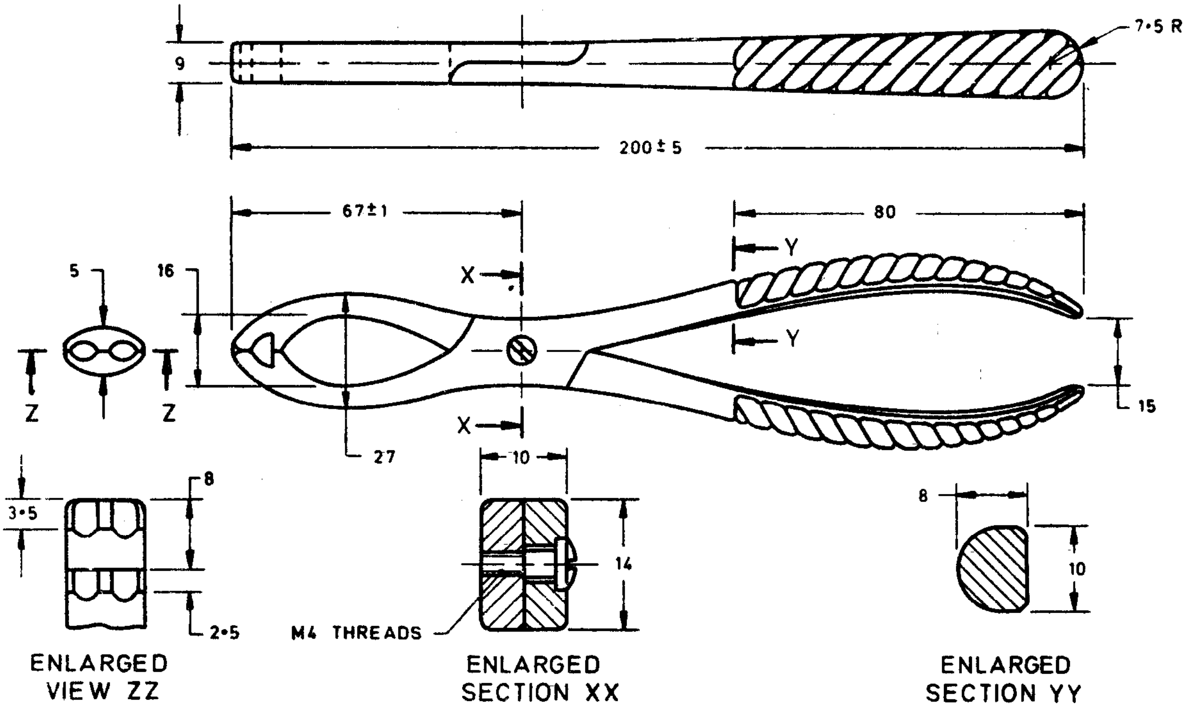


Size	A ±5	B	C	D	E	F	G	H	K	L
Medium	300	110	75	15	26	7·5	9	5·5	13	95
Small	250	100	70	13	24	7·0	8	5·0	12	65

All dimensions in millimetres.

FIG. 2 FORCEPS, BONE HOLDING, LANE-FAGGE'S PATTERN



All dimensions in millimetres.

FIG. 3 FORCEPS, BONE HOLDING, FERGUSSON'S PATTERN

4. Workmanship and Finish

4.1 The forceps shall be free from rough edges, pits, burrs, cracks and blemishes of any kind.

4.2 The teeth on the jaws shall be well formed and clean.

4.3 The two arms shall move freely and smoothly at the joint without any undue play.

4.4 The forceps shall be finished smooth, passivated and polished bright except that in the case or the forceps of Lane's and Lane-Fagge's patterns, the outside surface shall have mat finish to provide firm grip.

5. Heat Treatment — The forceps shall be hardened and tempered to 380 to 420 *HV*.

6. Tests

6.1 *Rigidity Test* — Hold a piece of hardwood of minimum thickness of 12 mm, in the jaws of the forceps. Apply a compressive force of 1 000 N (100 kgf approximately) to the handles of the forceps at the place of maximum convexity. Allow the force to act for two minutes. On completion of the test, the forceps shall show no sign of damage or permanent set.

6.2 *Corrosion Resistance Test* — Scrub the forceps with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the forceps, immerse in copper sulphate solution at room temperature for 6 minutes and wash with fresh water or wet cotton wool.

The copper sulphate solution shall be made up as follows:

Copper sulphate ($CuSO_4.5H_2O$)	4·0 g
Sulphuric acid (H_2SO_4) (sp gr 1·84)	10·0 g
Distilled water [*see* IS : 1070-1960 Specification for water, distilled quality (*revised*)]	90·0 ml

There shall be no red stains or spots on the forceps after the test, but dulling of the polished surface may be permitted.

7. Marking — The forceps shall be marked with the following:

a) Manufacturer's name, initials or recognized trade-mark;
b) Size of the forceps, in the case of Lane's and Lane-Fagge's patterns; and
c) Country of origin.

7.1 *ISI Certification Marking* — Details available from the Indian Standards Institution.

8. Packing — As agreed to between the purchaser and the supplier.

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